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		ОТНЕ	R PRIOR ART (Includi	ing Author, Title, Date, Pertinent I	Pages, Etc	.)			
	AP	1	Brodie et al., "In vivo migration and function of transferred HIV-1-specific cytotoxic T cells," Nature Medicine 5(1):34-41, January 1999.						
	AQ	Cohen et al., "Propagation of mouse and human T cells with defined antigen specificity				y			
				Symposium, 187:179-19					
 -	AD		Curtsinger et al., "CD8 ⁺ Memory T Cells (CD44 ^{high} , Ly-6C ⁺) Are More Sensitive						
	AR			TCR/CD8 Signaling in					
		1):3236-3243, 1998.	- -					
EXAMINI	ER			DATE CONSIDEREI)				
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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT			APPLICANTS			
			Ronald J. Berenson et al.			
		(Use several sheets if necessary)	FILING DATE	GROUP ART UNIT		
			January 20, 2004	1651		
		OTHER PRIOR ART (Including				
	Dahl et al., "Expression of Bcl-X _L Restores Cell S			ot Proliferation and		
	^^	Effector Differentiation, in CD28-de	eficient T Lymphocytes," J. A	Exp. Med., 191(12):2031-		
		2037, June 19, 2000.				
		DeBenedette et al., "Costimulation of	of CD28 T Lymphocytes by	4-1BB Ligand," J.		
	AB	<i>Immunol.</i> , 158(2):551-559, January		,		
		Deeths et al., "B7-1-dependent co-st		vely and quantitatively		
	AC	different responses by CD4 ⁺ and CD				
		1997.		, (, , , , , , , , , , , , , , , , , ,		
		Deeths et al., "CD8 ⁺ T Cells Becom	e Nonresponsive (Anergic) I	Following Activation in the		
	AD	Presence of Costimulation," J. Immi				
		Dong et al., "B7-H1, a third member		ates T-cell proliferation		
	AE	and interleukin-10 secretion," <i>Natur</i>	•	-		
	 					
	AF	Dunbar et al., "Direct isolation, phenotyping and cloning of low-frequency antigen-specific cytotoxic T lymphocytes from peripheral blood," <i>Current Biology</i> , 8(7):413-416, March				
		26, 1998.	Seytes from peripheral blood, Current blology, 6(1).413-416, March			
		Fanger et al., "Type I (CD64) and T	me II (CD32) Foy Recentor-	Mediated Phagocytosis by		
	AG	Human Blood Dendritic Cells," J. In				
	AH	Fowler et al., "Donor CD4-Enriched Cells of Th2 Cytokine Phenotype Regulate Graft- Versus-Host Disease Without Impairing Allogeneic Engraftment in Subjethally Irradiated				
		Mice," Blood, 84(10):3540-3549, N		in Subjection y madrated		
		Fraser et al., "Regulation of Interleu		ty by the T Cell Accessory		
	AI	, ,		ly by the 1 Cen Accessory		
		Molecule CD28," Science, 251:313-		December by a Navel D7		
	I AI I I		PD-1 Immunoinhibitory Receptor by a Novel B7 Regulation of Lymphocyte Activation," J. Exp. Med.,			
				ctivation, J. Exp. Mea.,		
		192(7):1027-1034, October 2, 2000.				
	AK	Gett et al., "Cell division regulates t	•	•		
	underlying immune class regulation," <i>Proc. Natl. Acad. Sci. USA</i> , 95:9488-9493, August					
		1998.	 			
	AL	Gett et al., "A cellular calculus for s	ignal integration by T cells,"	Nature Immunology,		
	1(3):239-244, September 2000.					
	Gillis et al., "Long term culture of tumour-specific cytoxic T cells," Nature, 268(14):154			ls," <i>Nature, 268</i> (14):154-		
	,	156, July 14, 1977.				
	AN	Gimmi et al., "B-cell surface antiger	-	· ·		
	'```	cells to proliferate and secrete interle	cells to proliferate and secrete interleukin 2," Proc. Natl. Acad. Sci. USA, 88:6575-6579,			
		August 1991.				
EXAMINE	R		DATE CONSIDERED			
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* EXAMINI		al if reference considered, whether or not criteria is in con		ough citation if not in		
	conf	formance and not considered. Include copy of this form	with next communication to applicant(s).			

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SUPPLEMENTAL	L INFORMATION DISCLOSURE STATEMENT	Ronald J. Berenson et al.			
	(Use several sheets if necessary)	FILING DATE	GROUP ART UNIT		
		January 20, 2004	1651		
	OTHER PRIOR ART (Including	Author, Title, Date, Pertinent Pages, Etc	.)		
l AA	Goodwin et al., "Molecular cloning	_	-		
	member of an emerging family of cytokines with homology to tumor necrosis factor," Eur. J				
	<i>Immunol.</i> , 23(10):2631-2641, October 1993.				
АВ	Green et al., "Antigen-specific huma				
AB	human lg heavy and light chain YACs," Nat. Genet., 7(1):13-21, May 1994.				
46	Groux et al., "CD3-mediated apopto	osis of human medullary thyr	nocytes and activated		
AC	peripheral T cells: respective roles	of interleukin-1, interleukin-	2, interferon-γ and		
	accessory cells," Eur. J. Immunol., 2	23(7):1623-1629, July 1993.	·		
	Guinn et al., "4-1BBL Cooperates w		erting a B Cell Lymphoma		
AD	•	umor Vaccine," J. Immunol., 162:5003-5010, 1999.			
	Hansen et al., "Monoclonal Antibod	lies Identifying a Novel T-Co	ell Antigen and Ia Antigens		
AE		genetics, 10(3):247-260, March 1, 1980.			
	Harding et al., "CD28- mediated sig	nalling co-stimulates murine	T cells and prevents		
induction of anergy in T-cell clones," <i>Nature 356</i> :607-609, April 16, 1992.			1 16, 1992.		
1.0	Heimfeld et al. "Improvements in Gene Therapy: Rapid Purification of Specific Targ				
Cells Using the CEPRATE® System," British J. Hae					
	1994.				
	Henderson et al., "Comparison of the	e effects of FK-506, cyclosp	oorin A and rapamycin on		
AH	IL-2 production," Immunol., 73(3):3	16-321, July 1991.	-		
	Heslop et al., "Long-term restoration	on of immunity against Epstein-Barr virus infection by			
AI	adoptive transfer of gene-modified virus-specific T lymphocytes," Nature Medicine				
	2(5):551-555, May 1996.				
	Hurtado et al., "Potential Role of 4-	1BB in T Cell Activation,"	I. Immunol. 155(7):3360-		
AJ	3367, October 1, 1995.				
AV	Hurtado et al., "Signals Through 4-1	IBB are Costimulatory to Pr	eviously Activated Splenic		
AK	T Cells and Inhibit Activation-Induc	ced Cell Death," J. Immunol.	158(6):2600-2609, March		
	15, 1997.				
AL	Jelley-Gibbs et al., "Two Distinct St	tages in the Transition from	Naive CD4 T Cells to		
AL	Effectors, Early Antigen-Dependent and Late Cytokine-Driven Expansion and				
	Differentiation," J. Immunol., 165:5	017-5026, 2000.			
	Jenkins et al., "Molecules involved in T-cell costimulation," Curr. Opin. Immunol.,				
AM	5(3):361-367, June 1993.				
June et al., "T-Cell Proliferation Involving		olving the CD28 Pathway Is	Associated with		
AN	Cyclosporine-Resistant Interleukin	2 Gene Expression," Mol. Co	ell. Biol., 7(12):4472-4481,		
	December 1987.				
EXAMINER		DATE CONSIDERED			
_					
	nitial if reference considered, whether or not criteria is in co		rough citation if not in		

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT			Ronald J. Berenson et al.		
(Use several sheets if necessary)			FILING DATE	GROUP ART UNIT	
			January 20, 2004	1651	
		OTHER PRIOR ART (Including)	
	AA	Kabelitz et al., "Life and death of a s	superantigen-reactive human	CD4+ T cell clone:	
	AA	staphylococcal enterotoxins induce of	death by apoptosis but simultaneously trigger a		
		proliferative response in the presence			
		4(12):1381-1388, December 1992.	range Par	,	
		Kawabe et al., "Programmed cell dea	ath and extrathymic reduction	n of VB8 ⁺ CD4 ⁺ T cells in	
	AB	mice tolerant to Staphylococcus aure			
		1991.	eus chiciotoxini B, Tutture,	777.243 2 10, Junuary 17,	
		Ku et al., "Control of Homeostasis o	f CD8 ⁺ Memory T Cells by	Opposing Cytokines "	
	AC	Science, 288:675-678, April 28, 200	0.		
	AD	Kung et al., "Monoclonal Antibodies Antigens," <i>Science</i> , 206:347-349, Oc	-	ın T Cell Surface	
		Kurys et al., "The Long Signal Pepti		ve Processing Direct the	
	AE				
Intracellular Trafficking of Interleukin-1				39).30033-30039,	
		September 29, 2000.	Natura 202:412 414 June	4 1008	
	AF	Lanzavecchia, A., "Licence to Kill,"			
	AG	Latouche et al., "Induction of human cytotoxic T lymphocytes by artificial antigen- presenting cells," <i>Nature Biotechnology</i> , 18(4):405-409, April 2000.			
		Laux et al., "Response Differences			
Costimulation: Implications for Immune Cell-Based Therapies and Studies Rel					
			ls during Aging," Clin. Immunol., 96(3):187-197,		
		September 2000.			
			val of Xenogeneic Pancreation	Islet Grafts Induced by	
	AI	Lenschow et al., "Long-Term Survival of Xenogeneic Pancreatic Islet Grafts Induced by CTLA4lg," <i>Science</i> , 257:789-792, August 7, 1992.			
		Levine et al., "CD28 ligands CD80 (uce long-term autocrine	
	AJ	growth of CD4+ T cells and induce			
		Immunol., 7(6):891-904, 1995.	F	,	
		Lindsten et al., "Regulation of Lymp	phokine Messenger RNA Sta	bility by a Surface-	
	Mediated T Cell Activation Pathway," Science, 244:339-343, April 21, 1989.				
		Linsley et al., "The Role of the CD2			
	AL	Annu. Rev. Immunol., 11:191-212, 1		, , , , , , , , , , , , , , , , , , ,	
·		Liu et al., "Calcineurin is a Common		osporin A and FKBP-	
	AM	FK506 Complexes," <i>Cell</i> , 66(4):807	-		
	431	Liuzzo et al., "Perturbation of the T-	Cell Repertoire in Patients	With Unstable Angina,"	
	AN	Circulation, 100(21):2135-2139, No.	=		
	40	Lord et al., "The IL-2 Receptor Pron	notes Proliferation, bcl-2 and	d bcl-x Induction, But Not	
	Cell Viability Through the Adapter Molecule Shc," J. Immunol., 161:4627-4633, 1998.				
EXAMINE	ER		DATE CONSIDERED		
* EXAMINI	ER: Initis	al if reference considered, whether or not criteria is in co	nformance with MPEP 609. Draw line the	ough citation if not in	
		ormance and not considered. Include copy of this form v		-	

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(Use several sheets if necessary)	FILING DATE	GROUP ART UNIT
	January 20, 2004	1651

	OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
AA	Malefyt et al., "Direct Effects of IL-10 on Subsets of Human CD4 ⁺ T Cell Clones and Resting T Cells," <i>J. Immunol.</i> , 150(11):4754-4765, June 1, 1993.		
AB	Marks-Konczalik et al., "IL-2-induced activation-induced cell death is inhibited in IL-15 transgenic mice," <i>Proc. Natl. Acad. Sci. USA</i> , 97(21):11445-11450, October 10, 2000.		
AC	Melero et al., "Monoclonal antibodies against the 4-1BB T-cell activation molecule eradicate established tumors, <i>Nature Medicine</i> , 3(6):682-685, June 1997.		
AD	Melero et al., "Amplification of tumor immunity by gene transfer of the co-stimulatory 4-1BB ligand: synergy with the CD28 co-stimulatory pathway," <i>Eur. J. of Immunol.</i> 28(3):1116-1121, March 1998.		
AE	Melief et al., "T-Cell Immunotherapy of Tumors by Adoptive Transfer of Cytotoxic T Lymphocytes and by Vaccination with Minimal Essential Epitopes," <i>Immunological Reviews</i> , 146:167-177, 1995.		
AF	Musso et al., "Human Monocytes Constitutively Express Membrane-Bound, Biologically Active, and Interferon -γ- Upregulated Interleukin-15," <i>Blood</i> , <i>93</i> (10):3531-3539, May 15, 1999.		
AG	Pollok et al., "Inducible T Cell Antigen 4-1BB: Analysis of Expression and Function," <i>J. Immunol.</i> , 150(3):771-781, February 1,1993.		
AH	Rabinovitch, "Regulation of human fibroblast growth rate by both noncycling cell fraction and transition probability is shown by growth in 5-bromodeoxyuridine followed by Hoechst 33258 flow cytometry," <i>Proc. Natl. Acad. Sci. USA</i> , 80:2951-2955, May 1983.		
Refaeli et al., "Biochemical Mechanisms of IL-2-Regulated Fas-Mediated T Cell Apoptosis," <i>Immunity</i> , 8(5):615-623, May 1998.			
AJ	Riddell et al., "The Fred Hutchinson Cancer Research Center and the University of Washington School of Medicine, Department of Medicine, Division of Oncology: Phase I Study of Cellular Adoptive Immunotherapy Using Genetically Modified CD8 ⁺ HIV-Specific T Cells for HIV Seropositive Patients Undergoing Allogeneic Bone Marrow Transplant," <i>Humane Gene Therapy</i> , 3(3):319-338, June 1992.		
AK	Riddell et al., "Restoration of Viral Immunity in Immunodeficient Humans by the Adoptiv Transfer of T Cell Clones," <i>Science</i> , 257:238-241, July 10, 1992.		
AL	Riddell et al., "Principles for Adoptive T Cell Therapy of Human Viral Diseases," Ann. Rev. Immunol., 13:545-586, 1995.		
АМ	Rooney et al., "Infusion of Cytotoxic T Cells for the Prevention and Treatment of Epstein-Barr Virus-Induced Lymphoma in Allogeneic Transplant Recipients," <i>Blood</i> , 92(5):1549-1555, September 1, 1998.		
AN	Rosenberg et al., "Gene Transfer into Humans – Immunotherapy of Patients with Advanced Melanoma, using Tumor-Infiltrating Lymphocytes Modified by Retroviral Gene Transduction," N. Engl. J. Med., 323(9)570-578, August 30, 1990.		
XAMINER	DATE CONSIDERED		

U.S. DEPARTMENT OF COMMERCE	ATTY. DOCKET NO.	APPLICATION NO.	
PATENT AND TRADEMARK OFFICE	980034.417C5	10/762,210	
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	OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
AA	Sagerström et al., "Activation and differentiation requirements of primary T cells in vitro," <i>Proc. Natl. Acad. Sci. USA</i> , 90:8987-8991, October 1993.		
AB	Salomon et al., "B7/CD28 Costimulation is Essential for the Homeostasis of the CD4 ⁺ CD25 ⁺ Immunoregulatory T Cells that Control Autoimmune Diabetes," <i>Immunity</i> , 12(4):431-440, April 2000.		
AC	San Jose et al., "Assembly of the TCR/CD3 complex: CD3ε/δ and CD3ε/γ dimers associate indistinctly with both TCRα and TCRβ chains. Evidence for a double TCR heterodimer model," Eur. J. Immunol., 28:12-21, 1998.		
AD	Saoulli et al., "CD28-independent, TRAF2-dependent Costimulation of Resting T Cells by 4-1BB Ligand," <i>J. Exp. Med., 187</i> (11):1849-1862, June 1, 1998.		
AE ,	Schwartz, R.H., "Costimulation of T Lymphocytes: The Role of CD28, CTLA-4, and B7/BB1 in Interleukin-2 Production and Immunotherapy," <i>Cell, 71</i> :1065-1068, December 24, 1992.		
AF	Shevach, "Regulatory T Cells in Autoimmunity," Annu. Rev. Immunol. 18:423-449, 2000.		
AG	Shuford et al., "4-1BB Costimulatory Signals Preferentially Induce CD8 ⁺ T Cell Proliferation and Lead to the Amplification In Vivo of Cytotoxic T Cell Responses," <i>J. Exp. Med.</i> , 186(1):47-55, July 7, 1997.		
AH	Smith et al., "T-Cell Growth Factor-Mediated T-Cell Proliferation," Ann. N.Y. Acad. Sci., 332:423-432, 1979.		
AI	Springer et al., "The Lymphocyte Function-Associated LFA-1, CD2, and LFA-3 Molecules: Cell Adhesion Receptors of the Immune System," <i>Ann. Rev. Immunol.</i> , 5:223-252, 1987.		
AJ	Tagaya et al., "Generation of secretable and nonsecretable interleukin 15 isoforms through alternate usage of signal peptides," <i>Proc. Natl. Acad. Sci. USA</i> , 94:14444-14449, Decembe 1997.		
AK	Takahashi et al., "Cutting Edge: 4-1BB Is a Bona Fide CD8 T Cell Survival Signal," J. Immunol., 162:5037-5040, 1999.		
AL	Tan et al., "4-1BB Costimulation Is Required for Protective Anti-Viral Immunity After Peptide Vaccination," J. Immunol., 164:2320-2325, 2000.		
AM	Turka et al., "T-cell activation by the CD28 ligand B7 is required for cardiac allograft rejection in vivo," Proc. Natl. Acad. Sci. USA, 89:11102-11105, November 1992.		
AN	van de Winkel et al., "Human IgG Fc receptor heterogeniety: molecular aspects and clinical implications," <i>Immunol. Today, 14</i> (5):215-221, 1993.		
AO	Voltz et al., "A Serologic Marker of Paraneoplastic Limbic and Brain-Stem Encephalitis in Patients with Testicular Cancer," N. Eng. J. Med., 340(23):1788-1795, June 10, 1999.		
EXAMINER	DATE CONSIDERED		
* EXAMINER: Initia	al if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in formance and not considered. Include copy of this form with next communication to applicant(s).		

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	OTHER PRIOR ART (Including A	Author, Title, Date, Pertinent Pages, Etc.)			
AA	Wang et al., "Naïve CD8 ⁺ T Cells Do Not Require Costimulation for Proliferation and Differentiation into Cytotoxic Effector Cells," <i>J. of Immunol.</i> , 164:1216-1222, 2000.				
AB	Webb et al., "Extrathymic Tolerance of Mature T Cells: Clonal Elimination as a Consequence of Immunity," <i>Cell</i> , 63:1249-1256, December 21, 1990. Wells et al., "Following the Fate of Individual T Cells Throughout Activation and Clonal Expansion," <i>J. Clin. Invest.</i> , 100(12):3173-3183, December 1997.				
AC					
AD	Wells et al., "T Cell Effector Function	Wells et al., "T Cell Effector Function and Anergy Avoidance Are Quantitatively Linked to Cell Division," <i>J. Immunol.</i> , 165:2432-2443, 2000.			
AE	Weyand et al., "Functional properties	Weyand et al., "Functional properties of CD4 ⁺ CD28 ⁻ T cells in the aging immune system," <i>Mechanisms of Ageing and Development, 102</i> (2, 3):131-147, May 15, 1998.			
AF	Yee et al., "Isolation of High Avidity	Yee et al., "Isolation of High Avidity Melanoma-Reactive CTL from Heterogeneous Populations Using Peptide-MHC Tetramers," <i>J. Immunol.</i> , 162:2227-2234, 1999.			
AG	Yotnda et al., "Cytotoxic T Cell Resp	Yotnda et al., "Cytotoxic T Cell Response Against the Chimeric p210 BCR-ABL Protein in Patients with Chronic Myelogenous Leukemia," J. Clin. Invest., 101(10):2290-2296,			
АН		Zamai et al., "Lymphocyte binding to K562 cells: effect of target cell irradiation and correlation with ICAM-1 and LFA-3 expression," Eur. J. Histochem., 38(Supp.1):53-60,			
AI					
AJ					
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